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## ISSUE SLIP STAPLE AREA (for additional cross-references) ISSUING CLASSIFICATION ORIGINAL CROSS REFERENCE(S) CLASS SUBCLASS (ONE SUBCLASS PER BLOCK) INTERNATIONAL CLASSIFICATION INTERNATIONAL CLASSIFICATION A Continued on Issue Slip Inside File Jacket INDEX OF CLAIMS Rejected Rejected Restricted Restricted Numerall Description of the forence of the property of the pro

|            | Γ        | Τ         | Γ         |              |         |                | 1         |                |          |              |          |            |                 |                   |              |              | •        | 1                   |           | 7        |               |            |              |          | 7            |           |           | $\top$   |               |              |
|------------|----------|-----------|-----------|--------------|---------|----------------|-----------|----------------|----------|--------------|----------|------------|-----------------|-------------------|--------------|--------------|----------|---------------------|-----------|----------|---------------|------------|--------------|----------|--------------|-----------|-----------|----------|---------------|--------------|
|            | 1        | t         | $\vdash$  | Н            | _       |                | 1         |                |          | 1            |          |            | ╁               |                   | _            | -            |          | _ <u></u>           | tin       | 4.       | n la          |            | <u></u>      |          |              |           |           |          |               | -            |
|            | L        | 1         |           | Ш            |         |                |           |                |          | 0            |          |            | 141             | DEX               | ים           | FCI          | AID      | <u>cor</u>          | tinue     | u O      | n IS          | su0        | OII          | INS      | i de         | -         | e J       | HCK      | ध             |              |
|            |          | ✓.        | ••••      |              | •       | Reje           | cted      | - (            | (Thre    | ough         | numer    | al)        | C               |                   |              | - OL         | N.       |                     |           | Non      | -elec         | ted        | Α            |          | ••••         | A         | фре       | al       |               |              |
|            |          | = ,       | Allowed + |              |         |                |           |                | Claim    |              |          | Restricted |                 | <u> </u>          |              |              | Inte     | nte <u>rference</u> |           | <u></u>  |               |            | Objected     |          |              |           |           |          |               |              |
|            |          | IIII      | Ø         | O            |         | Т              | Dat       | <del>e</del> _ | Т        | ┯┥           |          | 11111      | -               |                   | Т            | Da           | te       | 1                   |           | 1        | $\overline{}$ | im         | -            | •        | т            | Da        | ite       | _        | $\overline{}$ | т-           |
|            | Ţ.       | Original  | 9         | 1            | 3-0     |                | -         |                |          |              |          | Original   |                 |                   |              |              |          |                     |           |          |               | inal       |              |          | J            |           | 1         |          |               |              |
|            | Fina     | E.        | 20        | 1            | ni.     |                |           |                |          |              | Final    | ह          |                 |                   |              |              |          |                     |           |          | Final         | Original   |              |          |              |           |           |          |               |              |
|            | F        | 7         | #         | X            | 2       | $\vdash$       | +         | +              | +-       | $\dashv$     | F        | 51         | $\vdash \vdash$ | +                 | +            | +            | Н        |                     |           | 1        | F-            | 101        | Н            | $\dashv$ | $\dashv$     | +         | +         | +-       | +             | +            |
| 1          | 5        |           | ٣         | K            | 4       |                | +         | +              | +        | Н            | $\vdash$ | 52         | $\vdash$        | +-                | 十            | $\vdash$     |          | +                   | +         | 1        | $\vdash$      | 102        | Н            | +        | $\dashv$     | +         | +         | +        | ╁             | +-           |
| ,          |          | (3)       | Ħ         | H            |         | 1              | +         | +              | +        | Н            |          | 53         | $\vdash$        | +                 | t            | $\top$       | $\vdash$ | -1                  | $\dashv$  | 1        | <u> </u>      | 103        | H            | $\dashv$ | +            | $\forall$ | +         | +        | +             | +            |
| g          | 3        | 4         | 1         | V            | 13      |                |           |                |          |              |          | 54         |                 |                   |              |              |          |                     |           | 1        | П             | 104        |              | $\dashv$ | 7            | 7         | 7         | $\top$   | 十             | $\top$       |
|            | 4        | 5         | <b> </b>  | Ш            | ź       | 4              | 4         | $\downarrow$   | _        | П            |          | 55         | $\perp$         | $\perp$           |              | $oxed{oxed}$ |          | $\Box$              |           | ]        |               | 105        |              | $\Box$   |              | $\Box$    | $\perp$   |          | Ι             | $oxed{\Box}$ |
|            | 5        | 6<br>7    | #         | Щ            | F       | +              |           | +              | +        | Н            | $\vdash$ | 56<br>57   | $\dashv$        | +                 | ↓_           | -            | Ш        |                     | _         | 1        | Щ             | 106        | Ш            | 4        | 4            | 4         | 4         | 4        | 1             | ┯            |
|            | 7        | 3         | +         | Н            | 5       | -+             | +         | +              | ╁┈       | $\dashv$     | $\vdash$ | 58         |                 | ┿                 | ⊢            | $\vdash$     | $\vdash$ | $\dashv$            |           | 1        | Н             | 107<br>108 | Н            | -        | +            | +         | +         | +-       | ╀             | ₩            |
|            | 8        | ø         | ft        | H            | Ξ       | $\dashv$       | ╁         | ╁              | +-       | Н            | -        | 59         | +               | +                 | ╁            | Н            | H        | $\dashv$            | +-        | 1        | Н             | 109        | Н            | $\dashv$ | +            | +         | +         | +        | ╁             | +            |
|            | 9        | 10        | Ш         | V            | 3       | _              | T         | T              | T        | H            |          | 60         | +               | $\top$            | T            | $\vdash$     | $\vdash$ | $\dashv$            | +         |          | $\vdash$      | 110        |              | +        | +            | 1         | +         |          | +             |              |
|            |          | H         | •         |              |         |                | I         | I              |          |              |          | 61         |                 | I                 |              |              |          |                     |           |          |               | 111        |              | 士        | T            | 1         | 丁         |          | 1             | T            |
|            | $\Box$   |           | Ж         | $\dashv$     | _       | $\perp$        | $\perp$   | Ļ              | 1        | Н            |          | 62         | $\Box$          | 1                 | Ĺ            | $\Box$       | Ц        | J                   |           |          | Ш             | 112        |              | $\Box$   | $\Box$       | I         | Ţ         | I        | I             | $\Box$       |
|            | $\dashv$ |           | Ħ         |              | -       | +              | +         | +              | ╀        | Н            | -        | 63<br>64   | -               | +                 | 1            |              | $\sqcup$ | -                   |           |          | $\sqcup$      | 113        | Ц            | +        | 4            | 4         | 4         | 1        | $\perp$       | $\bot$       |
|            | 10       | <b>45</b> | H         | 7            | 台       | $\dashv$       | +         | +              | +        | Н            | $\vdash$ | 65         | +               | +                 | <del> </del> | H            | $\dashv$ | $\dashv$            |           |          | $\vdash$      | 114<br>115 | Н            | -+       | +            | +         | +         | +        | +             | ╁┤           |
|            | 11       | 9         | H         | Y            | =       |                | +         | +              | -00      | Н            | -        | 66         | +               | +                 | $\vdash$     | H            | $\dashv$ | vi                  | +-        |          |               | 116        | $\dashv$     | +        | +            | +         | +         | +-       | ╁             | ┦            |
|            | /2       | 17        | П         | $\mathbf{I}$ | Ξ       |                | 士         | T              | T        | П            |          | 67         | +               | +                 |              | $\vdash$     | 1        | $\top$              | +         |          | _             | 117        | $\dashv$     | $\dashv$ | 十            | +         | +         | +        | t             | +            |
|            |          | 18        | Ш         | Ц            | =       | T              | I         | I              |          | П            |          | 68         |                 | 3                 |              |              |          |                     |           |          |               | 118        | ╛            | 士        | 士            | I         | 1         | İ        | T             | Ħ            |
| 4          | 14       | 19        | Щ         | Ø.           | 2       | 4              | 4         | ╀              | ╀        |              |          | 69         | $\perp$         | 1_                | _            |              | $\Box$   | $\perp$             |           |          |               | 119        | $\Box$       | $\Box$   | $\perp$      | Ţ         | $\perp$   |          | L             | $\square$    |
|            | - 1      |           |           | $\exists$    |         | +              | +         | +              | $\vdash$ | Н            | $\vdash$ | 70<br>71   | +               | +                 | _            | ┥┥           | 4        | -                   | +         |          |               | 120        | 4            | 4        | 4            | 4         | +         | 4        | $\downarrow$  | ⇊            |
|            |          | 2         |           | 긦            | 닠       | +              | +         | ╁              | +        | H            | $\vdash$ | 72         | -+-             | +                 | $\vdash$     | Н            | -+       | +                   |           |          |               | 121<br>122 | $\dashv$     | +        | +            | +         | +         | +        | ╀             | ╢            |
| 8          | 범        | 23        | الهرا     | V            | 3       | +              | +         | +              | †        | Н            | -        | 73         | +               | +                 | $\vdash$     | $\vdash$     | $\dashv$ | +                   | +-        |          |               | 123        | $\dashv$     | +        | +            | +         | ╁         | +        | $\vdash$      | ╁┤           |
| 21         |          | 24        |           | V            | =       |                |           | I              | L        |              |          | 74         |                 | T                 |              |              | _        | $\top$              | 1         |          |               | 124        | ┪            | +        | 十            | 十         | $\dagger$ | +        | $\vdash$      | ╁┤           |
| ì          |          | 25        | $\square$ | $\Pi$        | ⋾       | $\perp$        | I         |                |          |              |          | 75         | I               | $oxed{\Box}$      |              |              |          |                     |           |          |               | 125        |              | 丁        | 1            | I         | I         | $\perp$  | Γ             | 口            |
| 0          |          | 26        | Ц         | ++           | =       | 4              | +         | $\perp$        | $\vdash$ | Щ            | Н        | 76         | - -             |                   | Ш            |              | $\perp$  | $\perp$             | $\Box$    |          |               | 126        | J            | $\perp$  | Ţ            | Ţ         | T         | Γ        | L             | 口            |
| 1234       |          | 27<br>28  | $\dashv$  |              | -       | +              | +         | ╀              | $\vdash$ | $H^{\prime}$ | H        | 77<br>78   | - -             | +                 | -            | ┝╾┼          | +        | +                   |           |          | _             | 127<br>128 | 4            | +        | +            | +         | ╀         | ┼-       | -             | ┦┤           |
| 3          |          | 29        | $\dashv$  | 11           | 러       | +              | +         | +              | $\vdash$ | H            | H        | 79         | $\dashv$        | +                 | $\vdash$     | $\vdash$     | +        | +                   | -         | ŀ        | _             | 129        | +            | +        | +            | +         | +         | ╁        | +             | ↤            |
| 4          | 5        | 30        | _†        | W.           | :1      | _              | 1         | 1              |          |              | $\Box$   | 80         | +               | $\top$            |              | $\vdash$     | 十        | +                   | +         |          |               | 130        | $\dashv$     | $\dashv$ | +            | $\dagger$ | +         | +-       | t             | Н            |
| 5          |          | 31        |           | 4            |         |                |           |                |          |              |          | 81         |                 |                   |              |              | 丁        |                     | $\Box$    | 1        | 1             | 131        |              | n k      |              | 1         |           |          |               | Н            |
| 7          | $\Box$   | 32        | 1         | Ц            | 1       | $\perp \Gamma$ | L         | L              | Д        | Щ            |          | 82         | $\perp$         | $\Box$            |              | $\Box$       | $\Box$   | 1                   | $\Box$    |          | _             | 132        |              |          | T            | I         | I         |          |               | 口            |
| -          | ,        | 33<br>34  | 4         | 4            | +       | +              | ╀         | ⊢              | Н        |              | $\vdash$ | 83<br>84   | $\bot$          | +                 | -            | $\sqcup$     | $\dashv$ | _                   | 44        |          |               | 133        | $\downarrow$ | 1        | 1            | 1         | 1         |          | L             | П            |
| F          |          | 35        | +         | +            | +       | +              | +         | $\vdash$       | Н        | $\dashv$     |          | 85         | +               | +                 | -            | $\dashv$     | $\dashv$ | +                   | ╫┦        | 1        |               | 134        | $\dashv$     | +        | +            | +         | +         | +        | -             | H            |
| 1          |          | 36        | +         | +            | +       | +              | $\dagger$ | 1              |          | $\dashv$     |          | 86         | +               | +                 | $\dashv$     | +            | $\dashv$ | +                   | +         | H        |               | 136        | +            | 十        | +            | +         | +         | ╁        | $\vdash$      | H            |
| t          | 1        | 37        | 1         | $\uparrow$   | +       | $\top$         | T         |                |          | 7            |          | 87         | $\top$          | $\dagger \exists$ | 7            | $\dashv$     | $\top$   | $\top$              | ╅┤        | ۱ħ       |               | 137        | +            | +        | $^{\dagger}$ | t         | $\dagger$ | +        | $\vdash$      | Н            |
|            |          | 38        | I         | T            | $\perp$ | T              | L         |                |          |              |          | 88         |                 |                   | コ            | $\Box$       | 1        | 上                   | $\Box$    |          | I .           | 38         | I            | 1        | 1            | İ         | Ι         | L        |               | 口            |
|            |          | 39        | 4         | 4            | 1       | 1              | 1         | L              | Ш        |              |          | 89         | $\perp$         | $\Box$            | $\Box$       | $\bot$       | $\perp$  | T                   | Ш         | -[       |               | 39         | $\bot$       |          | L            |           | , pt      | /        | ·             |              |
| <b>;</b> } |          | 10        | +         | +            | +       | +              | +-        |                | Н        | 4            |          | 90<br>91   | +               | $\vdash$          | 4            | 4            | 4        | 4                   | +         | -        |               | 40         | $\downarrow$ | 4        | 4            | +         | 1         | $\vdash$ |               | Ш            |
| 'ŀ         |          | 12        | +         | +            | +       | +              | +         | -              | Н        | $\dashv$     |          | 91         | +               | ╂┤                | $\dashv$     | $\dashv$     | +        | +                   | ┽┤        | 1        |               | 41         | +            | +        | +            | +         | ╀         | $\vdash$ | $\vdash$      | Н            |
| +          |          | 13        | 十         | +            | +       | +              | +         | <del>  -</del> | H        | $\dashv$     |          | 93         | +               | ╂┤                | +            | +            | +        | ┿                   | +         | -        | 1             | 43         | +            | +        | +            | +         | +         | $\vdash$ | $\vdash$      | Н            |
| r          | 7        | 4         | +         | $\dagger$    | +       | 1              | 1         | П              |          |              |          | 94         | $\top$          | +                 | $\dashv$     | $\dashv$     | 十        | $\top$              | $\forall$ |          |               | 44         | +            | +        | +            | +         | †         | Н        | $\vdash$      | Н            |
|            |          | 5         |           | I            | I       | I              |           |                |          |              |          | 95         |                 |                   |              | 丁            | 工        |                     |           |          |               | 45         | 士            |          | İ            | İ         | I         | П        |               | $\square$    |
| L          |          | 6         | 4         | T            | Ţ       | $\perp$        | Ĺ         | Ц              | Ц        | _]           |          | 96         | 10              |                   | I            |              | I        |                     |           |          |               | 46         | Ţ            | $\bot$   | I            | Γ         | $\Box$    |          |               |              |
| -          |          | 7         | +         | +            | +       | - -            | ╀         | Н              | $\dashv$ | $\dashv$     |          | 97<br>98   | +               | $\vdash$          | $\dashv$     | +            | - -      | +                   | +         | -        |               | 47         | +            | +        | $\perp$      | ╁         | 1         | Ц        | ᅵ             |              |
| $\vdash$   |          | 9         | +         | +            | +       | ╁              | +-        | $\vdash$       |          |              |          | 99         | +               | ╁┤                | $\dashv$     | +            | +        | +                   | ₩         | -        |               | 48<br>49   | +            | +        | +-           | +-        | $\vdash$  | Н        | $\dashv$      | H            |
| H          |          | 0         | +         | +            | +       | +              | $\vdash$  | Н              | +        | $\dashv$     |          | 00         | +               | ╀╌┤               | $\dashv$     | +            | +        | +-                  | +         | $\vdash$ |               | 50         | +            | +-       | ╁            | ╁         | ⊢         | Н        | $\dashv$      | H            |
| _          |          |           | 1         |              |         |                | lf        | mo             | re t     | han          |          |            | ns or           | 9 a               | ctio         | ns s         | tap      | e a                 | dditio    | nal      |               |            | er           |          | Т.           |           |           | ш        |               |              |
| 1          |          | ۸.        | . 1       |              |         |                |           |                |          |              |          |            |                 |                   | -            | _            |          |                     |           |          |               | •          |              |          |              |           |           |          |               |              |